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ABSTRACT

This appendix to the technical report "Developmental Activities Related to Summative Evaluation" contains 12 forms of a test entitled Problem Solving Survey, Part II. This test was used as part of the evaluation of the Mathematical Problem Solving Project, MPSP. Each test contains two examples and three problems. (MP)

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TECHNICAL REPORT IV: SUMMATIVE EVALUATION

APPENDIX I: Problem Solving Survey,
Part II (12 Forms)

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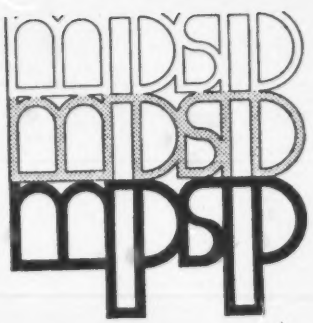
MATHEMATICAL PROBLEM SOLVING PROJECT



A Project of the
MATHEMATICS EDUCATION DEVELOPMENT CENTER
Project Supported by
National Science Foundation Grant PES74-15045

SE 026 929

TECHNICAL REPORT IV: SUMMATIVE EVALUATION

APPENDIX I: Problem Solving Survey, Part II
(12 Forms)

Instructions

In this booklet are three problems. You are to work each problem showing all of your work on the page. Write down as much as you can about how you worked the problem. Record your answer in the box at the bottom of the page.

Here are some examples of what other kids wrote down.

Example 0:

Mike has 6 marbles. Jane has 10 marbles. How many marbles did they have together?

Jane wrote: $6+10=16$ I added.

Joe wrote:
$$\begin{array}{r} 6 \\ +10 \\ \hline 16 \end{array}$$
It said all together.

Anne wrote:
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Answer: 16 marbles

Form PSS-OE/4A

Example 00:

Four boys ran a 100-yard dash. Tom came in first. Jeff came in last. Sam was ahead of Frank. Who came in second.

4 boys
1. Tom ← I know Tom was first.
2.
3.
4. Jeff ← and Jeff was last.

Sam was ahead of Frank.
So Sam came in second.

Answer: Sam

See how the students' work and thoughts are written down. The answer is written in the box.

If you cannot solve a problem go on to the next one. Go back to the ones you did not do after trying all problems.

DO NOT TURN THIS PAGE

UNTIL TOLD TO DO SO.

Name _____

1. Jim, Joe, and Sue baked 15 cookies. Then they shared the cookies.

   How many cookies did each person get?

   Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. John earns $2.00 an hour painting. It takes him 1 hour to paint a door and 2 hours to paint a wall. John painted a room with 4 walls and 1 door. How much did he earn?

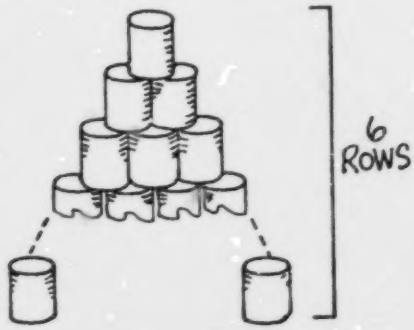
Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. Steve brought his can collection to show his class. He displayed the cans by stacking them in the shape of a triangle. On the top of the stack was one can. On the next row down were 2 cans. The third row had three cans. If Steve used 6 rows, how many cans did he display altogether?



Show all your work.

Answer:

GO BACK AND WORK ON

ANY PROBLEMS YOU DIDN'T FINISH.

I.D. No. _ _ _ _ _ _ _ _ _ _ _

Name _____ Code: _ _ _ _ _

MPSP

Booklet 2

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Form PSS-OE/4B

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Name _____

1. Jane can ride her bicycle 125 meters in one minute, while Joyce can ride 150 meters in one minute. They start from the same place and ride in opposite directions. How far apart will they be after one minute?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. An ounce of toothpaste is enough to brush 10 times. One tube contains 6 ounces of toothpaste and costs 50¢. Jill spent $1.00 on toothpaste. How many times will she be able to brush her teeth?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. Gary went to the store and bought pencils and erasers. The pencils cost 5¢ each and the erasers cost 8¢ each. He spent exactly 60¢. How many pencils did he buy? How many erasers did he buy?

Show all your work.

Answer:

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First

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Form PSS-OE/4C

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UNTIL TOLD TO DO SO.

Name _____

1. In a laundromat it costs 25¢ to use a washer and 10¢ to use a dryer. How much did it cost Mrs. Jackson to use 2 washers and 3 dryers?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. Brian weighs 50 pounds more than Bill. Brian weighs half as much as his father. Bill weighs 40 pounds. How much does Brian's father weigh?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. How many different ways can you make 30¢ using nickels, dimes, and quarters?

Show all your work.

Answer:

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UNTIL TOLD TO DO SO.

Name _____

1. A train is going from Chicago to Detroit and then from Detroit to Pontiac. The train starts in Chicago with 248 cars. When it stops in Detroit 37 cars are unloaded. How many cars does the train have when it arrives in Pontiac?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. Jessie bought 3 notebooks and 2 pens for $1.90. The price of one pen was 20¢. How much did one notebook cost?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. Ted and Judy went to a farm and saw some pigs and chickens. They counted 22 legs. How many chickens did they see? How many pigs did they see? Are there other answers?

Show all your work.

Answer:

GO BACK AND WORK ON
ANY PROBLEMS YOU DIDN'T FINISH.

I.D. No. __ __ __ __ __ __ __ __ __

Name _____ Code: __ __ __

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Answer: 16 marbles

Form PSS-OE/5A

Example 00:

Four boys ran a 100-yard dash. Tom came in first. Jeff came in last. Sam was ahead of Frank. Who came in second.

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Sam was ahead of Frank.
So Sam came in second.

Answer: Sam

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UNTIL TOLD TO DO SO.

Name _____

1. Susan took her collection of 65 pennies to the bank to exchange them for nickels. How many nickels did she get?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. Brian weighs 50 pounds more than Bill. Brian weighs half as much as his father. Bill weighs 40 pounds. How much does Brian's father weigh?

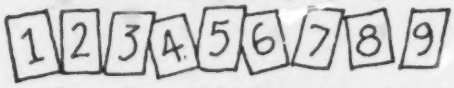
Show all your work.

Answer:

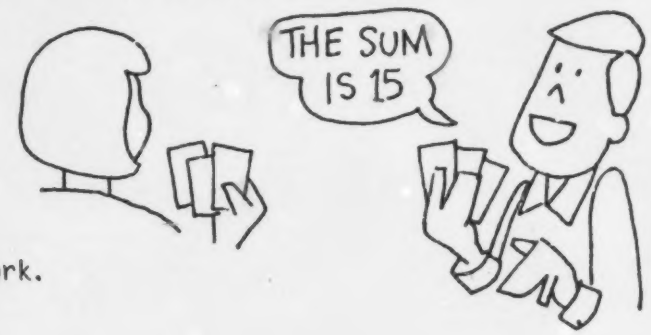
GO ON TO THE NEXT PAGE

Name _____

3. John and Mary were playing cards using this deck of nine cards



. Mary dealt John a hand of three cards. He said that the three cards had a sum of 15. What are all the possible hands John could have?



Show all your work.

Answer:

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MPSP

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Answer: 16 marbles

Form PSS-0E/5B

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UNTIL TOLD TO DO SO.

Name _____

1. During the first day of class Linda's teacher had 75 pencils to give to the class. There were 24 students in the class. Linda was asked to give out all of the 75 pencils so that each student had the same number of pencils. How many pencils did Linda give each student?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. Jessie bought 3 notebooks and 2 pens for $1.90. The price of one pen was 20¢. How much did one notebook cost?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. How many different ways can you make 30¢ using nickels, dimes, and quarters?

Show all your work.

Answer:

GO BACK AND WORK ON

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Name _____

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Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. When Art rides his bicycle he goes three blocks every two mintues. How long will it take Art to ride his bicycle to the movies which is 18 blocks from his house?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. When a man asked Levi the ages of his three daughters, he answered, "the sum of their ages is 31 and the product of their ages is 936. My oldest daughter is 13 years old." How old is each of his daughters?

Show all your work.

Answer:

GO BACK AND WORK ON
ANY PROBLEMS YOU DIDN'T FINISH.

Form PSS-OE/5C

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Name: _____

1. Marilyn wants to buy six favorite records, but she does not have any money. Each record costs $1.05. She really wants the records so she decides to ask her mother for the money. How much money should Marilyn ask for?

   Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. Barbara decided to take a 4-day trip on her motorcycle. She went 20 miles the first day. On each of the next three days she went two times that much. How far did Barbara go on her trip?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. Ted and Judy went to a farm and saw some pigs and chickens. Ted said there were 18 animals altogether. Judy said that she counted 50 legs. How many pigs were there? How many chickens were there?

Show all your work.

Answer:

GO BACK AND WORK ON

ANY PROBLEMS YOU DIDN'T FINISH.

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Form PSS-OE/6A

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UNTIL TOLD TO DO SO.

Name: _____

1. Harry uses $\frac{1}{4}$ of a bag of sugar to make one batch of cotton candy. How much sugar should he use to make only $\frac{1}{2}$ of a batch of cotton candy?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. At the drugstore Sam can get one postcard for a nickel or 6 postcards for a quarter. How much will it cost Sam to buy 20 postcards?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

3. Joan has ten coins which are nickels, dimes, and quarters. The total value of the coins is $1.60. How many of each kind of coins can she have?

Show all your work.

Answer:

GO BACK AND WORK ON

ANY PROBLEMS YOU DIDN'T FINISH

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   How much did it cost Mrs. Jackson to use 2 washers and 3 dryers?

   Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

2. The Anderson family and the Mitchell family are going on vacations. The two families will travel in opposite directions. The Andersons will average 50 miles per hour and the Mitchells will average 45 miles per hour. How long will it take them to be 475 miles apart if they start at the same time?

Show all your work.

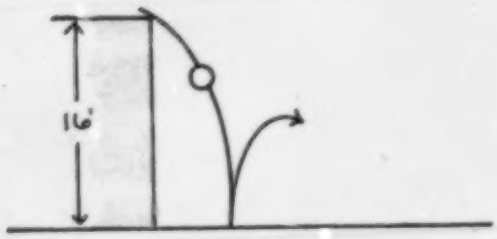
Answer:

GO ON TO THE NEXT PAGE

Name _____

3. A special rubber ball is dropped from the top of a wall which is 16 feet high. Each time the ball hits the ground it bounces back only half as high as the distance it fell. The ball is caught when it bounces back to a high point of one foot. How many times does the ball hit the ground?

Show all your work.



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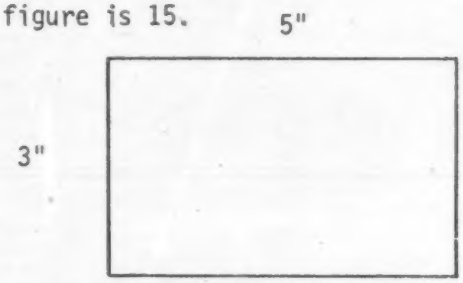
Show all your work.

Answer:

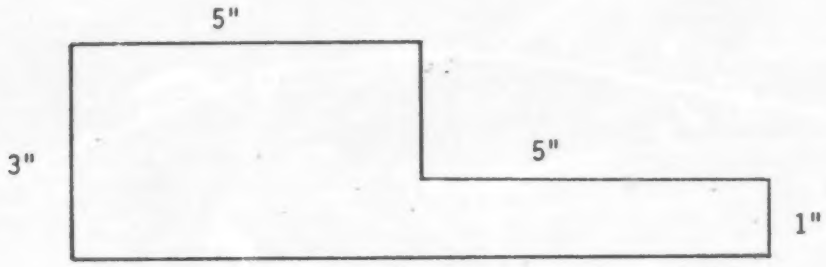
GO ON TO THE NEXT PAGE

Name _____

2. The area of this figure is 15.



What is the area of this figure?



Show all your work.

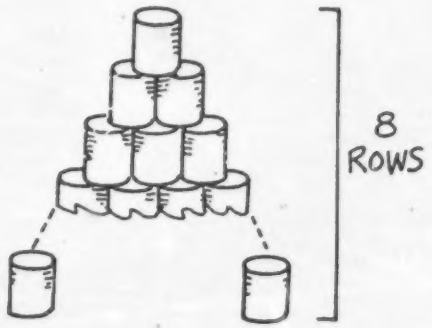
Answer:

GO ON TO THE NEXT PAGE

Name _____

3. Steve brought his can collection to show his class. He displayed the cans by stacking them in the shape of a triangle. On the top of the stack was one can. 2 cans were in the second row. If Steve used 8 rows, how many cans did he display altogether?

Show all your work.



Answer:

GO BACK AND WORK ON

ANY PROBLEMS YOU DIDN'T FINISH.

I.D. No. _ _ _ _ _ _ _ _ _ _ _

Name _____ Code: _ _ _

MPSP

Booklet 2

Instructions

In this booklet are three problems. You are to work each problem showing all of your work on the page. Write down as much as you can about how you worked the problem. Record your answer in the box at the bottom of the page.

Here are some examples of what other kids wrote down.

Example 0:

Mike has 6 marbles. Jane has 10 marbles. How many marbles did they have together?

Jane wrote: 6+10=16 I odded.

Joe wrote:
$$\begin{array}{r} 6 \\ +10 \\ \hline 16 \end{array}$$
It said all together.

Anne wrote:
$$\begin{array}{r} 6 \text{ marbles} \\ +10 \text{ marbles} \\ \hline 16 \text{ marbles} \end{array}$$

Answer: 16 marbles

Form PSS-OE/6D

Example 00:

Four boys ran a 100-yard dash. Tom came in first. Jeff came in last. Sam was ahead of Frank. Who came in second.

4 boys
1. Tom ← I know Tom was first.
2.
3.
4. Jeff ← and Jeff was last.

Sam was ahead of Frank.
So Sam came in second.

Answer: Sam

See how the students' work and thoughts are written down. The answer is written in the box.

If you cannot solve a problem go on to the next one. Go back to the ones you did not do after trying all problems.

DO NOT TURN THIS PAGE

UNTIL TOLD TO DO SO.

Name _____

1. Susan took her collection of 67 pennies to the bank to exchange them for nickels. How many nickels did she get?

Show all your work.

Answer:

GO ON TO THE NEXT PAGE

Name _____

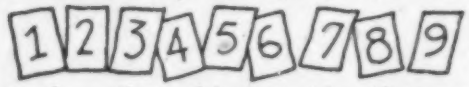
2. When Art rides his bicycle he goes three blocks every two minutes. How long will it take Art to ride his bicycle to the movies which is 18 blocks from his house?

Show all your work.

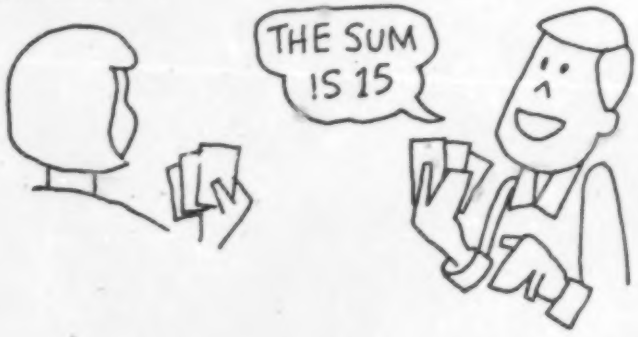
Answer:

GO ON TO THE NEXT PAGE

Name _____

3. John and Mary were playing cards using this deck of nine cards 

. Mary dealt John a hand of three cards. He said that the three cards had a sum of 15. What are all the possible hands John could have?



Show all your work.

Answers:

GO BACK AND WORK ON

ANY PROBLEMS YOU DIDN'T FINISH.